

Recombinant Full Length Human STAT4 Protein, C-Flag-tagged

Cat. No. STAT4-1745HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human STAT4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	85.8 kDa
AA Sequence	MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNETMATIL LQNLLIQLDEQLGR VSKEKNLLLIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERR ILAAANMPVQGPLEKSLQSSSVSERQ RNVEHKVAAIKNSVQMTEQDTKYLEDLQDE FDYRYKTIQTMDQSDKNSAMVNQEVLTLEMLNSLDFKRK EALSKMTQIIHETDLLM

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NTMLIEELQDWKRRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRRQLEKLE EQST
 KMTYEGDPIPMQORTHMLERVTFILYNLFKNSFVVERQPCMPHPQRPLVLKTLIQFT
 VKLRLLIKL PELNYQVKVKASIDKNVSTLSNRRFVLCGTNVKAMSIEESSNGSLSVEF
 RHLQPKEMKSSAGGKGNEGCH MVTEELHSITFETQICLYGLTIDLETSSLPVVMISN
 VSQLPNAWASIIWYNVSTNDSQNLVFFNNPPPAT LSQLEVMMSWQFSSYVGRGLN
 SDQLHMLAEKLTQSSYSDGHLTWAKFCKEHLPGKSFTFWTWLEAILDL IKKHILPL
 WIDGYVMGFVSKEKERLLLKDKMPGTFLRLFSESHLGGITFTWVDHSESGEVRFH
 VEPYNK GRLSALPFADILRDYKVIMAENIPENPLKYLYPDIPKDKAFGKHYSSQPCEV
 SRPTERGDKGYVPSVFIP
 ISTIRSDSTEPHSPDLLPMSPSVYAVLRENLSPTTIETAMKSPYSAETRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Jak-STAT signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	STAT4 signal transducer and activator of transcription 4 [Homo sapiens (human)]
Official Symbol	STAT4
Synonyms	SLEB11
Gene ID	6775
mRNA Refseq	NM_003151.4
Protein Refseq	NP_003142.1
MIM	600558
UniProt ID	Q14765

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